

CLAIMS:

What is claimed is:

- 5 1. A sealed connector assembly comprising;
an insert (12) having an inner bore (26) and adapted for connection to a source of fluid, a
rotatable fitting (14) having a fluid passageway (72) extending there through and
supported in said inner bore (26) of said insert, said rotatable fitting (14) having a second
passage (64) extending transversely to said first fluid passageway (72) to define an
10 elbow, a connector in said bore (26) for retaining said rotatable fitting (14) in said insert
(12) and sealing said rotatable fitting (14) to said insert (12)
2. An assembly as set forth in claim 1, wherein said connection includes a lost
motion device (38) for allowing said rotatable fitting (14) to move axially in said bore
15 (26) in said insert (12).
3. An assembly as set forth in claim 2 wherein said connection includes a locking
channel (86) extending about said rotatable fitting (14), a inner locking groove (46)
extending about said bore (26) of said insert (12), and a retaining ring (92) disposed in
20 said channel (86) and inner locking groove (46) for retaining said rotatable fitting (14) in
said bore (26) of said insert (12).
4. An assembly as set forth in claim 3 wherein said retaining ring (92) is radially
contractable and said lost motion device (38) comprises a conical wall (48), extending
25 axially from the bottom (47) of said groove (46) toward said bore (26) for compressing
said retaining ring (92) radially inwardly during axial movement of said rotatable fitting
(14) into said bore (26) of said insert (12).
5. An assembly as set forth in claim 4 wherein said connection includes at least
30 one seal (90) disposed about said rotatable fitting (14) in said bore (26) of said insert
(12).

6. An assembly as set forth in claim 4 wherein said bore (26) includes an entry conical shape (36) for contracting said retaining ring (92) during entry into said bore (26) with said rotatable fitting (14).

5 7. An assembly as set forth in claim 6 including a waist (44) disposed between said entry conical shape (36) and said groove (46) in said bore (26).

8. An assembly as set forth in claim 4 wherein said insert (12) includes threads (28) on the exterior thereof.

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9. As assembly as set forth in claim 4 wherein said insert (12) includes axially spaced (20) locking flanges (22,24) extending annularly about the exterior thereof.

10. An assembly as set forth in claim 4 including internal threads on the interior
15 of said second passage (64) in said rotatable fitting (14).

11. An assembly as set forth in claim 4 wherein said rotatable fitting (14) extends to a distal end (94) disposed exteriorly of said insert (12).

20 12. An assembly as set forth in claim 11 wherein said distal end (94) includes a shoulder (96) and a conical surface (98) for connection to a fluid line.